

- 19 -

## SEQUENCE LISTING

&lt;110&gt; PIERRE FABRE MEDICAMENT

<120> USE OF BACTERIAL MEMBRANE FRACTIONS WITH  
IMMUNOSTIMULANT ACTIVITY IN THE TREATMENT OF  
CANCERS, METHODS FOR PREPARING THEM AND THE  
PHARMACEUTICAL COMPOSITIONS CONTAINING THEM

&lt;130&gt; D17974

&lt;140&gt;

&lt;141&gt;

&lt;160&gt; 2

&lt;170&gt; PatentIn Vers. 2.0

&lt;210&gt; 1

&lt;211&gt; 1035

&lt;212&gt; DNA

&lt;213&gt; Klebsiella pneumoniae

&lt;220&gt;

&lt;221&gt; exon

&lt;222&gt; (1)..(1032)

&lt;220&gt;

&lt;221&gt; intron

&lt;222&gt; (1033)..(1035)

&lt;220&gt;

&lt;221&gt; CDS

&lt;222&gt; (1)..(1032)

&lt;400&gt; 1

```
atg aaa gca att ttc gta ctg aat gcg gct ccg aaa gat aac acc tgg 48
Met Lys Ala Ile Phe Val Leu Asn Ala Ala Pro Lys Asp Asn Thr Trp
   1             5             10             15
tat gca ggt ggt aaa ctg ggt tgg tcc cag tat cac gac acc ggt ttc 96
Tyr Ala Gly Gly Lys Leu Gly Trp Ser Gln Tyr His Asp Thr Gly Phe
          20             25             30
tac ggt aac ggt ttc cag aac aac aac ggt ccg acc cgt aac gat cag 144
Tyr Gly Asn Gly Phe Gln Asn Asn Asn Gly Pro Thr Arg Asn Asp Gln
          35             40             45
ctt ggt gct ggt gcg ttc ggt ggt tac cag gtt aac ccg tac etc ggt 192
Leu Gly Ala Gly Ala Phe Gly Gly Tyr Gln Val Asn Pro Tyr Leu Gly
          50             55             60
ttc gaa atg ggt tat gac tgg ctg ggc cgt atg gca tat aaa ggc agc 240
```

- 20 -

Phe	Glu	Met	Gly	Tyr	Asp	Trp	Leu	Gly	Arg	Met	Ala	Tyr	Lys	Gly	Ser	
65					70				75						80	
ggt	gac	aac	ggt	gct	ttc	aaa	gct	cag	ggc	gtt	cag	ctg	acc	gct	aaa	288
Val	Asp	Asn	Gly	Ala	Phe	Lys	Ala	Gln	Gly	Val	Gln	Leu	Thr	Ala	Lys	
			85						90						95	
ctg	ggt	tac	ccg	atc	act	gac	gat	ctg	gac	atc	tac	acc	cgt	ctg	ggc	336
Leu	Gly	Tyr	Pro	Ile	Thr	Asp	Asp	Leu	Asp	Ile	Tyr	Thr	Arg	Leu	Gly	
			100						105						110	
ggc	atg	gtt	tgg	cgc	gct	gac	tcc	aaa	ggc	aac	tac	gct	tct	acc	ggc	384
Gly	Met	Val	Trp	Arg	Ala	Asp	Ser	Lys	Gly	Asn	Tyr	Ala	Ser	Thr	Gly	
			115						120						125	
gtt	tcc	cgt	agc	gaa	cac	gac	act	ggc	gtt	tcc	cca	gta	ttt	gct	ggc	432
Val	Ser	Arg	Ser	Glu	His	Asp	Thr	Gly	Val	Ser	Pro	Val	Phe	Ala	Gly	
			130						135						140	
ggc	gta	gag	tgg	gct	gtt	act	cgt	gac	atc	gct	acc	cgt	ctg	gaa	tac	480
Gly	Val	Glu	Trp	Ala	Val	Thr	Arg	Asp	Ile	Ala	Thr	Arg	Leu	Glu	Tyr	
			145						150						160	
cag	tgg	gtt	aac	aac	atc	ggc	gac	gcg	ggc	act	gtg	ggt	acc	cgt	cct	528
Gln	Trp	Val	Asn	Asn	Ile	Gly	Asp	Ala	Gly	Thr	Val	Gly	Thr	Arg	Pro	
			165						170						175	
gat	aac	ggc	atg	ctg	agc	ctg	ggc	gtt	tcc	tac	cgc	ttc	ggt	cag	gaa	576
Asp	Asn	Gly	Met	Leu	Ser	Leu	Gly	Val	Ser	Tyr	Arg	Phe	Gly	Gln	Glu	
			180						185						190	
gat	gct	gca	ccg	gtt	gtt	gct	ccg	gct	ccg	gct	ccg	gct	ccg	gaa	gtg	624
Asp	Ala	Ala	Pro	Val	Val	Ala	Pro	Ala	Pro	Ala	Pro	Ala	Pro	Glu	Val	
			195						200						205	
gct	acc	aag	cac	ttc	acc	ctg	aag	tct	gac	gtt	ctg	ttc	aac	ttc	aac	672
Ala	Thr	Lys	His	Phe	Thr	Leu	Lys	Ser	Asp	Val	Leu	Phe	Asn	Phe	Asn	
			210						215						220	
aaa	gct	acc	ctg	aaa	ccg	gaa	ggt	cag	cag	gct	ctg	gat	cag	ctg	tac	720
Lys	Ala	Thr	Leu	Lys	Pro	Glu	Gly	Gln	Gln	Ala	Leu	Asp	Gln	Leu	Tyr	
			225						230						240	
act	cag	ctg	agc	aac	atg	gat	ccg	aaa	gac	ggt	tcc	gct	gtt	gtt	ctg	768
Thr	Gln	Leu	Ser	Asn	Met	Asp	Pro	Lys	Asp	Gly	Ser	Ala	Val	Val	Leu	
			245						250						255	
ggc	tac	acc	gac	cgc	atc	ggt	tcc	gaa	gct	tac	aac	cag	cag	ctg	tct	816
Gly	Tyr	Thr	Asp	Arg	Ile	Gly	Ser	Glu	Ala	Tyr	Asn	Gln	Gln	Leu	Ser	
			260						265						270	
gag	aaa	cgt	gct	cag	tcc	gtt	gtt	gac	tac	ctg	gtt	gct	aaa	ggc	atc	864

- 21 -

Glu Lys Arg Ala Gln Ser Val Val Asp Tyr Leu Val Ala Lys Gly Ile  
           275                                  280                                  285  
 ccg gct ggc aaa atc tcc gct cgc ggc atg ggt gaa tcc aac ccg gtt 912  
 Pro Ala Gly Lys Ile Ser Ala Arg Gly Met Gly Glu Ser Asn Pro Val  
           290                                  295                                  300  
 act ggc aac acc tgt gac aac gtg aaa gct cgc gct gcc ctg atc gat 960  
 Thr Gly Asn Thr Cys Asp Asn Val Lys Ala Arg Ala Ala Leu Ile Asp  
           305                                  310                                  315                                  320  
 tgc ctg gct ccg gat cgt cgt gta gag atc gaa gtt aaa ggc tac aaa 1008  
 Cys Leu Ala Pro Asp Arg Arg Val Glu Ile Glu Val Lys Gly Tyr Lys  
                                   325                                  330                                  335  
 gaa gtt gta act cag ccg gcg ggt taa 1035  
 Glu Val Val Thr Gln Pro Ala Gly  
                                   340

&lt;210&gt; 2

&lt;211&gt; 344

&lt;212&gt; PRT

<213> *Klebsiella pneumoniae*

&lt;400&gt; 2

Met Lys Ala Ile Phe Val Leu Asn Ala Ala Pro Lys Asp Asn Thr Trp  
           1                                  5                                  10                                  15  
 Tyr Ala Gly Gly Lys Leu Gly Trp Ser Gln Tyr His Asp Thr Gly Phe  
                                   20                                  25                                  30  
 Tyr Gly Asn Gly Phe Gln Asn Asn Asn Gly Pro Thr Arg Asn Asp Gln  
                                   35                                  40                                  45  
 Leu Gly Ala Gly Ala Phe Gly Gly Tyr Gln Val Asn Pro Tyr Leu Gly  
                                   50                                  55                                  60  
 Phe Glu Met Gly Tyr Asp Trp Leu Gly Arg Met Ala Tyr Lys Gly Ser  
                                   65                                  70                                  75                                  80  
 Val Asp Asn Gly Ala Phe Lys Ala Gln Gly Val Gln Leu Thr Ala Lys  
                                   85                                  90                                  95  
 Leu Gly Tyr Pro Ile Thr Asp Asp Leu Asp Ile Tyr Thr Arg Leu Gly  
                                   100                                  105                                  110  
 Gly Met Val Trp Arg Ala Asp Ser Lys Gly Asn Tyr Ala Ser Thr Gly  
                                   115                                  120                                  125  
 Val Ser Arg Ser Glu His Asp Thr Gly Val Ser Pro Val Phe Ala Gly  
                                   130                                  135                                  140

- 22 -

Gly Val Glu Trp Ala Val Thr Arg Asp Ile Ala Thr Arg Leu Glu Tyr  
145 150 155 160  
Gln Trp Val Asn Asn Ile Gly Asp Ala Gly Thr Val Gly Thr Arg Pro  
165 170 175  
Asp Asn Gly Met Leu Ser Leu Gly Val Ser Tyr Arg Phe Gly Gln Glu  
180 185 190  
Asp Ala Ala Pro Val Val Ala Pro Ala Pro Ala Pro Ala Pro Glu Val  
195 200 205  
Ala Thr Lys His Phe Thr Leu Lys Ser Asp Val Leu Phe Asn Phe Asn  
210 215 220  
Lys Ala Thr Leu Lys Pro Glu Gly Gln Gln Ala Leu Asp Gln Leu Tyr  
225 230 235 240  
Thr Gln Leu Ser Asn Met Asp Pro Lys Asp Gly Ser Ala Val Val Leu  
245 250 255  
Gly Tyr Thr Asp Arg Ile Gly Ser Glu Ala Tyr Asn Gln Gln Leu Ser  
260 265 270  
Glu Lys Arg Ala Gln Ser Val Val Asp Tyr Leu Val Ala Lys Gly Ile  
275 280 285  
Pro Ala Gly Lys Ile Ser Ala Arg Gly Met Gly Glu Ser Asn Pro Val  
290 295 300  
Thr Gly Asn Thr Cys Asp Asn Val Lys Ala Arg Ala Ala Leu Ile Asp  
305 310 315 320  
Cys Leu Ala Pro Asp Arg Arg Val Glu Ile Glu Val Lys Gly Tyr Lys  
325 330 335  
Glu Val Val Thr Gln Pro Ala Gly  
340